

Patent Docket: 210105US1 (4081-02801)

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

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| Applicant: | Rodney L. Porter et al. | § | |
| Serial No.: | 10/083,934 | § | Group Art Unit: 1764 |
| Filed: | February 27, 2002 | § | |
| | | § | Examiner: James Arnold, Jr. |
| For: | PROCESS TO PRODUCE A DILUTE ETHYLENE | § | |
| | STREAM AND A DILUTE PROPYLENE STREAM | § | Confirmation No. 4659 |

Commissioner for Patents
PO Box 1450
Alexandria, VA 22313-1450

I hereby certify that this correspondence and PTO Form 1449 with citations attached, is being deposited with the United States Postal Service with sufficient postage as first class mail, in an envelope addressed to: Commissioner for Patents, PO Box 1450, Alexandria, VA 22313-1450 on

9-16-2003

(Date of Deposit)

Edith Shale

SECOND SUPPLEMENTAL INFORMATION DISCLOSURE STATEMENT

Commissioner:

In accordance with 37 CFR §1.97, §1.98, Applicants are providing herewith a listing of the contents of a third party submission under 37 C.F.R. 1.99 filed on July 21, 2003 for the parent U.S. Patent Application Serial No. 09/992,445, which is also listed on the attached U.S. Patent and Trademark Office Form PTO 1449. Copies of the cited references have been omitted as such copies presumably were provided via the third party submission. This information is supplemental to the Information Disclosure Statements and Forms PTO 1449 filed in the above-referenced case on February 27, 2002 and June 3, 2003.

U.S. PATENTS

| <u>Patent No.</u> | <u>Inventor</u> | <u>Issue Date</u> |
|-------------------|-----------------|-------------------|
| 5,981,818 | Purvis et al. | November 9, 1999 |
| 5,960,643 | Kuechler et al. | October 5, 1999 |
| 5,880,320 | Netzer | March 9, 1999 |

REFERENCES

Pertinent pages of an Environmental Report dated April 1999 and publicly distributed in Australia by Huntsman Chemical Company

Hydrocarbon Processing Magazine article, published May 1999, entitled *Integrate ethyl benzene production with an olefins plant*

Oil and Gas Journal Magazine article, published September 26, 1977, entitled *Ethylbenzene Unit operates well on dilute ethylene*

Hydrocarbon Processing Magazine article, published December 1983, entitled *Ethylene From Natural Gas Feedstocks, Part 3, Flow Scheme Comparisons*

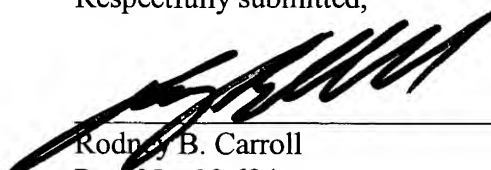
Hydrocarbon Processing Magazine article, published August 1979, entitled *Front End Deethanizer Saves Energy*

The submission of this Supplemental Information Disclosure Statement and Form PTO-1449 is not an admission that the art cited is "prior" with respect to the present invention, nor is it a representation that no better art exists. Applicants hereby reserve the right to swear behind or otherwise disprove any alleged "prior" nature of any art cited should the facts support and the situation warrant such an action. It is submitted that the art cited does not constitute a bar to the patentability of Applicants' invention under 35 U.S.C. § 102 or § 103.

The Commissioner is hereby authorized to charge payment of any further fees associated with any of the foregoing papers submitted herewith, or to credit any overpayment thereof, to Deposit Account No. 50-1515, Conley Rose, P.C.

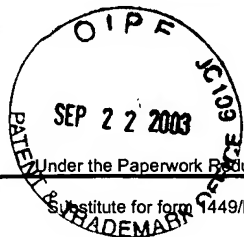
Date: 9-16-03

Respectfully submitted,



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ATTORNEY FOR APPLICANTS



PTO/SB/08A (04-03)

Approved for use through 04/30/2003. OMB 0651-0031

U.S. Patent and Trademark Office; U.S. DEPARTMENT OF COMMERCE

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**INFORMATION DISCLOSURE
STATEMENT BY APPLICANT**

(Use as many sheets as necessary)

Sheet 1 of 2

Complete if Known

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| Application Number | 10/083,934 |
| Filing Date | February 27, 2002 |
| First Named Inventor | Rodney L. Porter |
| Art Unit | 1764 |
| Examiner Name | James Arnold, Jr. |
| Attorney Docket Number | 210105US1 (4081-02801) |

U. S. PATENT DOCUMENTS

| Examiner Initials* | Cite No. ¹ | Document Number | Publication Date MM-DD-YYYY | Name of Patentee or Applicant of Cited Document | Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear |
|--------------------|-----------------------|--|--------------------------------|--|---|
| | | Number-Kind Code ² (if known) | | | |
| | | US- 5,981,818 | 11/09/1999 | Purvis et al. | |
| | | US- 5,960,643 | 10/05/1999 | Kuechler et al. | |
| | | US- 5,880,320 | 03/09/1999 | Netzer | |
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FOREIGN PATENT DOCUMENTS

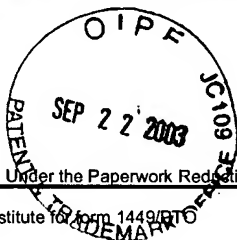
| Examiner Initials* | Cite No. ¹ | Foreign Patent Document | Publication Date MM-DD-YYYY | Name of Patentee or Applicant of Cited Document | Pages, Columns, Lines, Where Relevant Passages Or Relevant Figures Appear | T ⁶ |
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This collection of information is required by 37 CFR 1.97 and 1.98. The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.14. This collection is estimated to take 2 hours to complete, including gathering, preparing, and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, U.S. Department of Commerce, Washington, DC 20231. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Commissioner for Patents, Washington, DC 20231.

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| | | Art Unit | 1764 |
| | | Examiner Name | James Arnold, Jr. |
| Sheet 2 | of 2 | Attorney Docket Number | 210105US1 (4081-02801) |

| NON PATENT LITERATURE DOCUMENTS | | | |
|---------------------------------|-----------------------|---|----------------|
| Examiner Initials* | Cite No. ¹ | Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published. | T ² |
| | | Pertinent pages of an Environmental Report dated April 1999 and publicly distributed in Australia by Huntsman Chemical Company | |
| | | Hydrocarbon Processing Magazine article, published May 1999, entitled "Integrate ethyl benzene production with an olefins plant" | |
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| Examiner Signature | Date Considered |
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¹ Applicant's unique citation designation number (optional). ² Applicant is to place a check mark here if English language Translation is attached.

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